

## ABSTRACT OF THE DISCLOSURE

A method for designing a profile extrusion die is based on an analogy that exists between membrane deflection under pressure and low Reynolds number pressure driven fluid flow. The analogy is used to predict the relative shape of the die to correct for die swell or die contraction.

- 5 The application of the analogy takes into consideration the characteristics of the extruder, the operating conditions, and the extrudate composition.